Inv nt r(s):

Filing Date:

Rev 05/03 (IDSCERT)

Application No.:

PATENT APPLICATION

Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400

Steven E Carpenter

Herewith

ATTORNEY DOCKET NO. 200209412-1

Confirmati n No.:

Group Art Unit:

Examiner:

Telephone No.: (541) 715-4197

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Titl:	Nanostructure Fabrication Using Mic	crobial Mandrel
PO Box 1	oner for Patents 450 a, VA 22313-1450 INFORMATION DISCLOS	SURE STATEMENT
Sir:		
	nformation Disclosure Statement is submitte	ed:
	under 37 CFR 1.97(b), or	or date of entry of national application; or before
()	under 37 CFR 1.97 (c) together with eith () Statement under 37 CFR 1.97(e), or () a \$180.00 fee under 37 CFR 1.17(p)	er a:
()	under 37 CFR 1.97 (d) together with a: () Statement under 37 CFR 1.97(e)(1) (() a \$180.00 fee set forth in 37 CFR 1. (Filed after final action, a notice of allowance,	.17(p).
pendency		e sum of <u>\$0.00</u> . At any time during the less required or credit any overpayment to Deposit
copies, of believe(s)	patents, publications or other information	149 - Information Disclosure Citation together with of which applicant(s) are aware, which applicant(s) s application and for which there may be a duty to
and other individuals attached foreign pareport or a	r foreign language information listed on s(s) designated in 37 CFR 1.56 (c) most sheet, or where a foreign language pater atent office in a counterpart foreign appli	rign language patents, foreign language publications PTO Form 1449, as presently understood by the knowledgeable about the content is given on the it is cited in a search report or other action by a cation, an English language version of the search nice found by the foreign office is listed on form PTO
It is reque	ested that the information disclosed herein b	pe made of record in this application.
deposited	certify that this correspondence is being I with the United States Postal Service	Respectfully submitted,
Commiss	lass mail in an envelope addressed to: ioner for Patents, Alexandria, XA (2	Steven E Carpenter
	450. Date of Deposit: (0) (3) (1) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	By I must by I Mage
transmitte	ed to the Patent and Trademark Office	Timothy F. Myers
facsimile Number o	of pages:	Attorney/Agent for Applicant(s) Reg. No. 42,919
Typed Na	ame:Timothy F. Myers	Date: 6/24/03

ease type a plus sign (+) inside this box ->	+
----------------------------------------------	---

Please type a plus sign (+) inside this box + Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitut	te for form 1449A/PT	ro		Compl te if Known			
				Application Number			
INF	DRMATION	1 DISC	LOSURE	Filing Date			
STATEMENT BY APPLICANT				First Named Inventor	CARPENTER, Steven		
				Group Art Unit			
(use as many sheets as necessary)				Examiner Name			
Sheet	1	of	2	Attorney Docket Number	200209412		

U.S. PATENT DOCUMENTS									
Examiner Initials*	Cite No. ¹	Number	nent Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
		20030026985	A1	GREINER et al.	02-06-2003				
		6515339	B2	SHIN et al.	02-04-2003				
		20030021141	A1	SEGAL et al.	01-30-2003				
		20030012723	A1	CLARKE	01-16-2003				
		20020167375	A1	HOPPE et al.	11-14-2002				
		20020158342	A1	TUOMINEN et al.	10-31-2002				
		20020138049	A1	ALLEN et al.	09-26-2002				
		20020133129	A1	ARIAS et al.	09-19-2002				
		6325909	B1	LI et al.	12-04-2001				
		20010019238	A1	DAI et al.	09-06-2001				
		6303388	B1	FAHEY	10-16-2001				
	1								

	FOREIGN PATENT DOCUMENTS									
Examiner Cite Initials No.1		Office ³	Foreign Patent Document Kind Code ⁵ Office ³ Number ⁴ (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Te		
		JP	2001181842	A	Matsushita Electric	07-03-2001		*		
								┼-		
		-						+		
								\top		
		\vdash				-		╁		
		\vdash						土		
								\perp		
		1 1		j		1				

Examiner	Date	1
	1 0 ! - !	id l
Signature	Consider	· · · · · · · · · · · · · · · · · · ·

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

lease	type	а	plus	sign	(+)	inside	this	box	→	_
	-7 F -		F	3	٠,					I +

PTO/SB/08B (10-96)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitu	te for form 1449B/PTC)		Compl te if Known			
				Application Number			
INFORMATION DISCLOSURE				Filing Date			
STA	TEMENT E	3 Y	APPLICANT	First Named Inventor	CARPENTER, Steven		
O .,,		•	, , <u></u>	Group Art Unit			
	(use as many s	heet	s as necessary)	Examiner Name			
Sheet	2	of	2	Attorney Docket Number	200209412		

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Anon. BBC NEWS "'Nanowire' breakthrough hailed," 04/01/2003 http://news.bbc.co.uk/go/pr/fr/-/1/hi/sci/tech/2906621.stm	
		R. Colin Johnson "DNA molecules form nanodevice scaffolding," EE Times, March 10, 2003	
		S. STUPP et al. "Supramolecular organic structures as templates for inorganic nano-objects," Institute of Nanotechnology News (June 2002)	
		M. D. LYNCH et al. "Organizing Carbon Nanotubes with Liquid Crystals," Nano Letters v. 2, no. 11 (2002) pp. 1197-1201	
		R. Colin Johnson "Nanotubes self-assemble into circuit elements," EE Times March 10, 2003	
		(Intentionally left blank)	
		M. AHLSKOG et al. "A microdeposition technique for carbon nanotubes based on electron beam lithography," J. Appl. Phys. v. 85 (1999) pp. 8432-8435	
		J. D. Hartgerink, "Organic Nanotubes from Cyclic Peptide Architecture," (date unknown) http://www.scripps.edu/chem/ghadiri/html/research.html	

Examiner	Date
Signature	Considered

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.